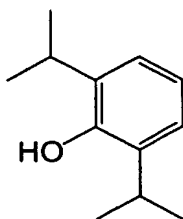


Claims

What is claimed is:

1. A compound having the general structural formula of propofal (I)

5



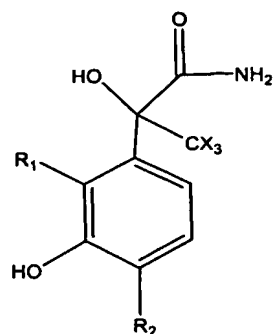
I

wherein said compound is a derivative of propofal (I) and has greater aqueous solubility than propofal (I), further wherein said compound is an anesthetic agent.

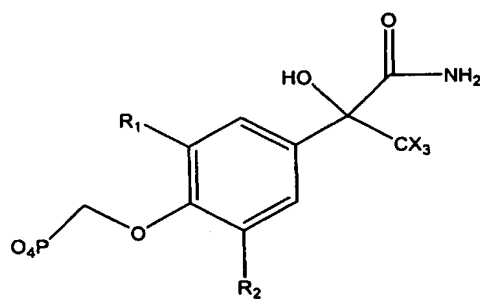
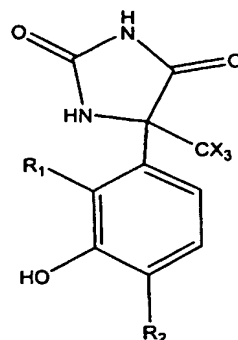
10

2. A compound of claim 1 having a general structure selected from the group consisting of structures II, III, IV, and V, or derivatives thereof:

II

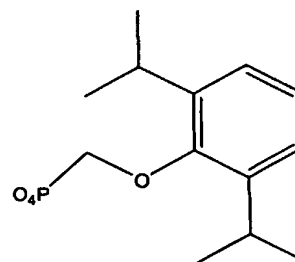


III



IV

and



V

3. A compound of claim 2, wherein R_1 and R_2 are independently selected from the group consisting of isopropyl, C_1 - C_4 alkyl, hydroxy, alkoxy and $-O(CH_2)_nPO_4$, n is an integer ranging from 1-4, and X is halo.
4. A compound of claim 2, wherein R_1 is independently selected from the group consisting of C_1 - C_4 alkyl, X is halo, and R_2 is independently selected from the group consisting of hydroxy, alkoxy and $-O(CH_2)_nPO_4$, and n is an integer ranging from 1-4.

5. A compound of claim 2, wherein R_1 and R_2 are independently selected from the group consisting of C_1 - C_4 alkyl and X is halo.

6. A compound of claim 5, wherein X is F.

5

7. A compound of claim 2, wherein R_1 and R_2 are each isopropyl and X is halo.

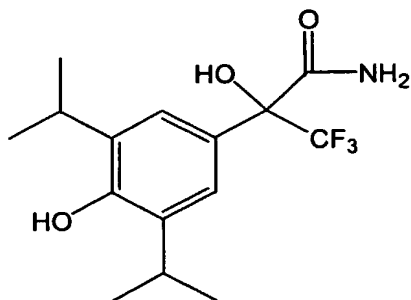
8. A compound of claim 7, wherein X is F.

10 9. A compound of claim 2, wherein R_1 is isopropyl, X is halo, and R_2 is hydroxy or $-O(CH_2)_nPO_4$, and n is an integer ranging from 1-4.

10. A compound of claim 9, wherein X is F and R_2 is hydroxy.

15 11. A compound of claim 9, wherein X is Cl or F.

12. A compound of claim 1 having the general structure



VI

20

13. A compound according to claims 1, 2, 3, 4, 5, or 12 wherein said compound is crystalline in form.

14. A pharmaceutical composition comprising at least one compound of claims 1, 2,
25 3, 4, 5, or 12 and a pharmaceutically acceptable carrier.

15. A method of inducing anesthesia in a subject in need thereof, said method comprising administering to said subject an effective amount of a composition comprising at least one compound according to claims 1, 2, 3, 4, 5, or 12, or pharmaceutically acceptable salts thereof.

5

16. The method of claim 15, wherein said composition is administered intravenously.

17. The method of claim 15, wherein said subject is a human.

10 18. A kit for inducing anesthesia in a subject in need of anesthesia, said kit comprising a pharmaceutical composition of claim 14, an applicator, and an instructional material for the use thereof.

19. A method of preparing an anesthetic compound derived from propofal (I), said
15 method comprising preparing said compound derived from propofal according to
scheme I:

